



4468C2-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No: 10/618,077 Confirmation No: Not Known
Date Filed: July 11, 2003
Application Title: Polymerase Extension at 3' Terminus Of PNA-DNA
Chimera
Applicants: Egholm et al.
Group Art Unit: Not Known
Examiner: Not Known
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Brian D. Gildea
Reg. No. 39,995

INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents
Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.97, Applicant(s) hereby make of record the following information and publications. Copies of PTO Form 1449 and each publication listed thereon accompany this statement, either in the entirety or in the relevant parts. The documents identified herein are NOT admitted as being prior art.

FEE

Since this correspondence is being mailed before receipt of the first action on the merits, it is believed that no fee is due. If however The Office determines that a fee is due for considering this submission, The Office is hereby authorized to deduct, from Deposit Account 02-3240, any appropriate fee for the entry of this paper into the file.

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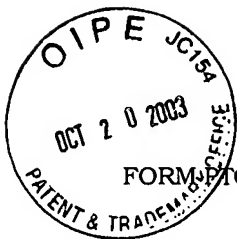
Respectfully submitted,

Date: Oct 15, 2003

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: 4468C2
APPLICANT: Michael Egholm
SERIAL NO.: 10/618,077
FILING DATE: 7/11/03
GROUP:

US PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	01	5,332,666	July 26, 1994	Prober et al.	435	91.5	Oct. 22, 1991
	02	6,063,571	May 16, 2000	Uhlmann et al.	435	6	Sept. 11, 1997
	21	6,265,559	July 24, 2001	Gildea et al.	536	23.1	May 12, 2000

FOREIGN PATENT
DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
	03	WO93/25563	Dec. 23, 1993					
	04	WO95/08556	Mar. 30, 1995					
	05	EP0672677	Sep. 20, 1995					
	06	WO97/31256	Aug. 28, 1997					
	07	WO97/49769	Dec. 31, 1997					
	08	EP0829542	Mar. 18, 1998					
	09	WO99/34014	July 8, 1999					

	10	Stratagene, Catalog, Gene Characterization Kits, page 39 (1988)
	11	Reaching, L. et al., "Polyamide Nucleic Acid Targeted to the Primer Binding Site of the HIV-1 RNA Genome Blocks In Vitro HIV-1 Reverse Transcription," Biochemistry 37, 900-910 (1998)
	12	Lutz, M.J., et al., Recognition of Uncharged Polyamide-Linked Nucleic Acid Analogs by DNA Polymerases and Reverse Transcriptions," Journal of American Society 119, 3177-3178
	13	Hari S. Misra et al., "Polyamide Nucleic Acid-DNA Chimera Lacking the Phosphate Backbone are Novel Primers for Polymerase Reaction Catalyzed by DNA Polymerases," Biochemistry 37, 1917-1925 (1998)
	14	Pastin, T. et al, "Minisequencing: A Specific Tool For DNA Analysis And Diagnostics On Oligonucleotide Arrays." Genome Research , 7, 606-614 (1997)
	15	Ross P. et al., "Discrimination of Single-Nucleotide Polymorphisms in Human DNA Using Peptide Nucleic Acid Probes Detected by MALDI-TOF Mass Spectrometry," Analytical Chemistry 69 (20), 4197-4202 (1997)
	16	Uhlmann, E. et al., "Peptide Nucleic Acids (PNA) and PNA-DNA Chimeras: From High Binding Affinity Towards Biological Function," Biol. Chemistry 379, 1045-1052 (1998)
	17	Uhlmann, E. et al., "Synthesis and Properties of PNA/DNA Chimeras," Angew. Chemical Int. Ed. Engl. 35 (22) 2632-2635
	18	Alexander C. Van Der Laan, et al., "A Convenient Automated Solid-Phase Synthesis of PNA-(5')-DNA-(3')-PNA Chimera," Tetrahedron Letters 38 (13), 2249-2252 (1997)
	19	Ravi Vinatak et al., "Automated Chemical Synthesis of PNA and PNA-DNA Chimera on a Nucleic Acid Synthesizer," Nucleosides & Nucleotides 16 (7-9) 1653-1656 (1997)
	20	Yershov, G.. et al, "DNA Analysis And Diagnostic On Oligonucleotide Microchips." Proc. Natl. Acad. Sci. USA , 93, 4913-4918 (1996)

EXAMINER: _____ DATE CONSIDERED: _____